

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/SC01968
Source: IFWO
Date Processed by STIC: 4/20/07

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/560,968

TIME: 16:08:30

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

```

3 <110> APPLICANT: Keygene NV
5 <120> TITLE OF INVENTION: Means and method for the detection of target nucleotide
sequences using
6     ligation assays with improved oligonucleotide probe sets
8 <130> FILE REFERENCE: P208746PCT1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/560,968
C--> 10 <141> CURRENT FILING DATE: 2005-12-16
10 <150> PRIOR APPLICATION NUMBER: PCT/NL04/000428
11 <151> PRIOR FILING DATE: 2004-06-16
13 <150> PRIOR APPLICATION NUMBER: PCT/NL03/00444
14 <151> PRIOR FILING DATE: 2003-06-17
16 <160> NUMBER OF SEQ ID NOS: 68
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 472
22 <212> TYPE: DNA
23 <213> ORGANISM: Lycopersicon esculentum
25 <220> FEATURE:
26 <221> NAME/KEY: misc_feature
27 <223> OTHER INFORMATION: synthetic oligonucleotide
30 <400> SEQUENCE: 1
31 tatccactca ggtctccgca agccagaaat gggatataca ccttgttacg accytcaagc      60
33 catccactac tgcaatctgt catgtcacag atgttcggaa gataatgtat aagtacaact      120
35 atatagtcgg awttgcatct agtctagcat tcggaaaatg gaagccatgc tacttctagc      180
37 ataaaaaaca gcagctagaa atcgtaactc caatgatacg aggaagtatt cagagtttag      240
39 agtgawgtac aatgcaatth agagaacaag catctgcaca tcraagttac ctaggtcctc      300
41 agcgccctgat ggacttccaa cttgttcaag aaggcgataa aggtctttct cattgaatcc      360
43 ttcaggtgga gagtagtttt cacaaactgc aaatgcctct gcacagcgga aagattgaat      420
45 tagatttatg ttatatagcc attctagtct tgctttaatg gatctttctc ga              472
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 222
50 <212> TYPE: DNA
51 <213> ORGANISM: Lycopersicon esculentum
53 <400> SEQUENCE: 2
54 ccacagtttc atgctgcacc tacatgtgta agcaactatc atagcaagtc tcggaacaat      60
56 tggtaggaaa aaatcmkyta aggatatgaa acatactgty ctttcttcat ctgagctctgy      120
58 agagttaatt tttaactctt gggataaatg caaagawtta gacatggakg agtycttaac      180
60 acgtccagac aagaggcgta acacagggtac accttttctc ga              222
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 133
65 <212> TYPE: DNA
66 <213> ORGANISM: Lycopersicon esculentum
68 <400> SEQUENCE: 3
69 ttgtgcttga tgaattgtag gtccagtgca ggtttgcttc taaaacaggg agcactttgc      60

```

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/560,968

TIME: 16:08:30

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

```

71 aagtgggtgaa agttctatta gctgggaaaag tgtagtttga gcagttttga gctgarttaa      120
73 caagaaaaaat cga                                                                133
76 <210> SEQ ID NO: 4
77 <211> LENGTH: 249
78 <212> TYPE: DNA
79 <213> ORGANISM: Lycopersicon esculentum
81 <400> SEQUENCE: 4
82 ccgccactgg gtaattgagt ttcatattga tggttttggt tttgttracg cttcttcctt      60
84 gttgagaggg ttcaatggag agattctatc tcgtcctcca ttagttgaag ctattgcctt      120
86 tgatcctatc ctttcaaagg ycaagatgat tgcagataat tggaatccat taaccaatga      180
88 ttctacggaa aattttattcc ctactggag gagatgggca gagataaata tgagattttg      240
90 tgatgacat                                                                249
93 <210> SEQ ID NO: 5
94 <211> LENGTH: 284
95 <212> TYPE: DNA
96 <213> ORGANISM: Lycopersicon esculentum
98 <400> SEQUENCE: 5
99 tcgagtaagg cggatggata tggacaagc catttcaagg agcaatttcc caggattttc      60
101 agctttgcaa cagcagaagt gtayctctgc agagatagat cataaccttt ggaaagggtg      120
103 agtaattgtc aaagggagga atgagccagg aaactgatag actatgttgc gaaaaaagc      180
105 tatacttcac taaaaaaaagg ctagacgttt gagaaatgaa gcaagaacta acacctctca      240
107 ccaattgcat cattttctta gttcagttga tgtgatgagc ttgt                          284
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 320
112 <212> TYPE: DNA
113 <213> ORGANISM: Lycopersicon esculentum
115 <400> SEQUENCE: 6
116 tcgatatccw ctcttgtttg ttgcaggagc wgaactataa attgcttgca ggaaccttga      60
118 catatgcttt ctgttgagac ttgaatcacc agcatggatt tgaatgcctt gccacagcca      120
120 gaggatgacg aygagatttt tggacaacaa ttagaagatg aaccacaaga acctatttta      180
122 cgtagtgatg agcstgcaga ttatgtcacg agtgctgtag agatttcacg tcgcgtatgt      240
124 ttctgcttat actgctcgct gtatcaacta ttgaacygta ctactacttg arcttgctcg      300
126 ttattggat atttcttttt                                                                320
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 191
131 <212> TYPE: DNA
132 <213> ORGANISM: Lycopersicon esculentum
134 <400> SEQUENCE: 7
135 gaattcacac tasgttcgat gaaattgaaa cgttctcttt ctgaagaaka tacacaagaa      60
137 aaaatcttat agtctcaaac aatattcttc ttcgtaacag aaaacacgga agaaaatctc      120
139 ttctgaaaat ccctataatc actggctgga acttctccsa actctcaatt tttcaacctt      180
141 ctctatgtta a                                                                191
144 <210> SEQ ID NO: 8
145 <211> LENGTH: 279
146 <212> TYPE: DNA
147 <213> ORGANISM: Lycopersicon esculentum
149 <400> SEQUENCE: 8
150 ctgcagaadt actgtttggt caggacttac taaatatcct aaacaaaatt gatgatagag      60
152 ccaataatgt atgcatgatt ggcggtcort tcttttggtta tagcaagagc ttgaagctaa      120

```

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/560,968

TIME: 16:08:30

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

```

154 ttttgtttgt cataatggcc gcactaattg tttattatct cagaatgaac aaaaagaagc 180
156 aagtcagaag ctttstactc tatactgaac aactttggaa ttggaactat gtacttatct 240
158 agccacgcct catagatctt tgtggtttag gagtgttaa 279
161 <210> SEQ ID NO: 9
162 <211> LENGTH: 336
163 <212> TYPE: DNA
164 <213> ORGANISM: Lycopersicon esculentum
166 <400> SEQUENCE: 9
167 gaattcacaa tgaaaaakgk dgtaaaaaca cgaaatcaat caagcatgca agagataatg 60
169 ttgtccatcc agttgttgtt gatgtttcgg tattgtatgt gtgttgggag gagttatctg 120
171 grcagcaagt cgaggtttga acgtcaaaaa ggtatgggtt gtcttctctc tttgtccctt 180
173 ttcgaagaga cccctaaggt tcagacgaat ctattccaaa aactagggtt gttccttggt 240
175 gcatctcctt ktcacaagct cccatcgcat cataagtagg gtatgtttga tggtagaatt 300
177 tacggatgta atttactttt gaaatgatta tgttaa 336
180 <210> SEQ ID NO: 10
181 <211> LENGTH: 373
182 <212> TYPE: DNA
183 <213> ORGANISM: Lycopersicon esculentum
185 <400> SEQUENCE: 10
186 agagagacga gagctcgact agtgatagtg ttatgtgcaa cagttgaata gaaagatgya 60
188 cacgagcctc ggatcaatgg cagggaaaaga ggcgtgggtc tacgaaccat aaaggcaagg 120
190 ttgagctttc ctttacagag tacatcgctt attccatact ccgctgatac tctttgataa 180
192 atcaaaatct gtggtgatct cgtagttctt ggggatccca gccaaaacca ccttcgaggt 240
194 tcaacacaa atagacagta tggcagaata tcaagacaat gactgctcga aactgctgat 300
196 ggcattatgt gcaaccgttg aatagagaga tgtacacgag tctcggatca atggcaggaa 360
198 aagagagtgc ttg 373
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 124
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <223> OTHER INFORMATION: oligonucleotide
211 <400> SEQUENCE: 11
212 gtacaatgca atttagagaa caagcgggaa ttggtacgca gtcgatgagt cctgagtaac 60
214 gctgatccga tcgatatcga cgtagctgca tcgtaatcgg gaagtattca gagtttagag 120
216 tgaa 124
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 122
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: synthetic oligonucleotide
229 <400> SEQUENCE: 12
230 gtacaatgca atttagagaa caagcgggaa ttggtacgca gtcgatgagt cctgagtaac 60
232 gcatccgatc gatatcgacg tagctgcac gtaatcggga agtattcaga gtttagagt 120
234 at 122
237 <210> SEQ ID NO: 13

```

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/560,968

TIME: 16:08:30

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

```

238 <211> LENGTH: 119
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <223> OTHER INFORMATION: synthetic oligonucleotide
247 <400> SEQUENCE: 13
248 cttaacacgt ccagacaaga ggcgggaatt ggtacgcagt cgatgagtcc tgagtaacgc      60
250 accatgtcga cgtagatccg tatagcactg agtcgcaaag aattagacat ggatgagtt      119
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 117
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <223> OTHER INFORMATION: synthetic oligonucleotide
263 <400> SEQUENCE: 14
264 cttaacacgt ccagacaaga ggcgggaatt ggtacgcagt cgatgagtcc tgagtaacgc      60
266 ccatgtcgac gtagatccgt atagcactga gtccaaagat ttagacatgg aggagtc      117
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 114
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <223> OTHER INFORMATION: synthetic oligonucleotide
279 <400> SEQUENCE: 15
280 ttaacaagaa aaatcgggtca ggactgggaa ttggtacgca gtcgatgagt cctgagtaac      60
282 gccgtacgca tgctaacggt acggactatc tagtttgagc agttttgagc tgaa      114
285 <210> SEQ ID NO: 16
286 <211> LENGTH: 112
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial
290 <220> FEATURE:
291 <221> NAME/KEY: misc_feature
292 <223> OTHER INFORMATION: synthetic oligonucleotide
295 <400> SEQUENCE: 16
296 ttaacaagaa aaatcgggtca ggactgggaa ttggtacgca gtcgatgagt cctgagtaac      60
298 gctacgcgat gtaacggtac ggactatcta gtttgagcag ttttgagctg ag      112
301 <210> SEQ ID NO: 17
302 <211> LENGTH: 109
303 <212> TYPE: DNA
304 <213> ORGANISM: Artificial
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <223> OTHER INFORMATION: synthetic oligonucleotide
311 <400> SEQUENCE: 17
312 acgcttcttc cttggtgaga ggggggaatt ggtacgcagt cgatgagtcc tgagtaacgc      60
314 cgatgctcag gctatcgaca tgttcatatt gatgggtttg tttttgtta      109

```

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/560,968

TIME: 16:08:30

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

```

317 <210> SEQ ID NO: 18
318 <211> LENGTH: 107
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial
322 <220> FEATURE:
323 <221> NAME/KEY: misc_feature
324 <223> OTHER INFORMATION: synthetic oligonucleotide
327 <400> SEQUENCE: 18
328 acgcttcttc cttgttgaga ggggggaatt ggtacgcagt cgatgagtc tgagtaacgc      60
330 atgctcaggc tatcgacatg ttcatttgga tggttttgtt tttgttg      107
333 <210> SEQ ID NO: 19
334 <211> LENGTH: 104
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial
338 <220> FEATURE:
339 <221> NAME/KEY: misc_feature
340 <223> OTHER INFORMATION: synthetic oligonucleotide
343 <400> SEQUENCE: 19
344 ctctgcagag atagatcata acctgggaat tggtagcag tcgatgagtc ctgagtaacg      60
346 catcacgtca tgctgagcat agctttgcaa cagcagaagt gtat      104
349 <210> SEQ ID NO: 20
350 <211> LENGTH: 102
351 <212> TYPE: DNA
352 <213> ORGANISM: Artificial
354 <220> FEATURE:
355 <221> NAME/KEY: misc_feature
356 <223> OTHER INFORMATION: synthetic oligonucleotide
359 <400> SEQUENCE: 20
360 ctctgcagag atagatcata acctgggaat tggtagcag tcgatgagtc ctgagtaacg      60
362 ccacgtcatg ctgagcatag ctttgcaaca gcagaagtgt ac      102
365 <210> SEQ ID NO: 21
366 <211> LENGTH: 99
367 <212> TYPE: DNA
368 <213> ORGANISM: Artificial
370 <220> FEATURE:
371 <221> NAME/KEY: misc_feature
372 <223> OTHER INFORMATION: synthetic oligonucleotide
375 <400> SEQUENCE: 21
376 gaactataaa ttgcttgca gaaccgggaa ttggtacgca gtcgatgagt cctgagtaac      60
378 gctcgctaac gttacgctct cttgtttgtt gcaggagca      99
381 <210> SEQ ID NO: 22
382 <211> LENGTH: 97
383 <212> TYPE: DNA
384 <213> ORGANISM: Artificial
386 <220> FEATURE:
387 <221> NAME/KEY: misc_feature
388 <223> OTHER INFORMATION: synthetic oligonucleotide
391 <400> SEQUENCE: 22
392 gaactataaa ttgcttgca gaaccgggaa ttggtacgca gtcgatgagt cctgagtaac      60

```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 04/20/2007

PATENT APPLICATION: US/10/560,968

TIME: 16:08:31

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34

Seq#:35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58

Seq#:59,60,61,62,63,64,65,66,67,68

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/560,968

DATE: 04/20/2007

TIME: 16:08:31

Input Set : N:\AMC\10560968.txt

Output Set: N:\CRF4\04202007\J560968.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date